PTO/SB/08 (08-00) d for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, notice resons are required to respond to a collection of information unless it contains a valid OMB control

Substitute for to the THATESTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: February 28, 2002

(use as many sheets as necessary)

Sheet of

	Complete if Kno	WI DECEIVED
Application Number	09/937,295	RECEIVED
Filing Date	11/29/2001	
First Named Inventor	Mark UDEN	MAR 0 1 2002
Group Art Unit	1646	Mirtie 0 = Comment
Examiner Name	Unassigned	TECH CENTER 1600/2900
Attorney Docket Number	078883-0134	TECH CENTER 1000/2900

	U.S. PATENT DOCUMENTS						
		U.S. Patent Document			Date of Publication of	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	

		· · · · · · · · · · · · · · · · · · ·					

		FC	DREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No.1	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ°
an	A14	WO 99/32646	Oxford Biomedica (UK) Limited [GB/GB]	07/01/99		Y

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Signature	In Dyna	Date Considered	6/24/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08 (08-00)

Appended for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control

Substitute for form INFORMATION DISCLOSURE

STATEMENT BY APPLICANTDate Submitted: February 28, 2002

	(use as many sheets as necessary)						
heet		2	of	3			

	Complete if Know	" BEULIN
Application Number	09/937,295	0.1.2002
Filing Date	11/29/2001	MAR O I ZOUZ
First Named Inventor	Mark UDEN	+ 000/09/
Group Art Unit	1646	163 LOU CENTER 1600/PS
Examiner Name	Unassigned	TECH CENTER
Attorney Docket Number	078883-0134	

Examiner Cit Initials* No		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
QN			Ý
(A16	BRODY, BRIAN et al., "Postassembly Clevage of a Retroviral Glycoprotein Cytoplasmic Domain Removes a Necessary Incorporation Signal and Activates Fusion Activity", 1994, <u>J. of Virology</u> 68:4620-4627	Y
	A17	REIN, ALAN et al., "Function of the Cytoplasmic Domain of a Retroviral Transmembrane Protein: p15E-p2E Clevage Activates the Membrane Fusion Capability of the Murine Leukemia Virus Env Protein, 1994, <u>J. of Virology</u> , 68:1773-1781	Y
	A18	MAULIK, SUNIL et al., "Molecular Biotechnology: Therapeutic Applications and Strategies", 1997, Wiley-Liss, Inc., pp.45	Y
	A19	DOUGHERTY, JOSEPH P. et al., "A promoterless retroviral vector indicates that there are sequences in U3 requird for 3' RNA processing", 1987, Proc. Natl. Acad. Sci., 84:1197-1201	Y
	A20	HAWLEY, ROBERT et al., "Handicapped retroviral vectors efficiently transduce foreign genes into hematopoietic stem cells", 1987, Proc. Natl. Acad. Sci., 84:2406-2410	Y
	A21	Yee, JIING-KUAN et al., "A general method for the generation of high-titer, pantropic retroviral vectors: Highly efficient infection of primary hepatocytes", 1987, <u>Proc. Natl. Acad. Sci.</u> , 91:9564-9568	Y
	A22	JOLLY, DOUGLAS J. et al., "Elements in the terminal repeat of murine retroviruses enhance stable transformation by thymidline kinase gene", 1983, Nucleic Acids Research, 11:1855-1872	Y
	A23	EMERMAN, MICHAEL et al., "Genes with Promoters in Retrovirus Vectors Can Be Independently Suppressed by an Epigenetic Mechanism", 1984, Cell, 39:449-467	Y
	A24	HERMAN, STEVEN A. et al., "Efficient Packaging of Readthrough RNA in ALV: Implications for Oncogene Transduction", 1987, Science, 236:845-848	Y
	A25	MILLER, DUSTY A. et al., "A transmissible retrovirus expressing human hypoxanthine phosphoribosyltransferase (HPRT): Gene transfer into cells obtained from humans deficient in HPRT", 1983, Proc. Natl. Acad. Sci., 80:4709-4713	Y
	A26	MILLER, DUSTY A. et al., "Improved Retroviral Vectors for Gene Transfer and Expression", 1989, BioTechniques, 7:980-990	Y
	A27	KRALL, WJ et al, "Increased levels of spliced RNA account for augmented expression from the MFG retroviral vector in hematopoietic cells", 1996, Gene Therapy, 3:37-48	Y
an	A28	OVERELL, ROBERT W. et al., "Stably Transmitted Triple-Promoter Retroviral Vectors and Their Use in Transformation of Primary Mammalian Cells", Molecular and Cellular Biology, 8:1803-1808	Y

Examiner Signature	2 Nine	Date Considered	6/24/04
-----------------------	--------	--------------------	---------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08 (08-00)

for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction ersons are required to respond to a collection of information unless it contains a valid OMB control Act of 1995,

> Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: February 28, 2002

(use as many sheets as necessary) of 3 3

Sheet

	Complete if Known	7
Application Number	09/937,295	2002
Filing Date	09/937,295 11/29/2001 MAR 0 1	7007
First Named Inventor	Mark UDEN	
Group Art Unit	1646 163 GECH CENTER	1600/29
Examiner Name	Unassigned	
Attorney Docket Number	078883-0134	

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T®
QN			Y
ſ	A30	KORMAN, ALAN J. et al., "Expression of human class II major histocompatibility complex antigens using retrovirus vectors", 1987, Proc. Natl. Acad. Sci., 84:2150-2154	Y
	A31	DRANOFF, GLENN et al., "Vaccination with irradiated tumor cells engineered to secrete murine granulocyte-macrophange colony-stimulating factor stimulates potent, specific, and long-lasting anti-tumor immunity", 1993, Proc. Natl. Acad. Sci., 19:3979-3986	Y
	A32	LEE, FRANK et al., "Glucocorticoids regulate expression of dihydrofolate reductase cDNA in mouse mammary tumour virus chimaeric plasmids", 1981, <u>Nature</u> , 294:228-232	Y
	A33	LEWIS, JOHN A. et al., "Structure and Expression of the Chinese Hampster Thymidine Kinase Gene", 1986, Molecular and Cellular Biology, 6:1998-2010	Y
	A34	CHAPMAN, BARBARA S. et al., "Effect of intron A from human cytomegalovirus (Towne) immediate-early gene on heterologous expression in mammalian cells", 1991, Nucleic Acids Research, 19:3979-3986	Y
	A35	BENDER, MICHAEL A. et al., "Evidence that the Packaging Signal of Moloney Murine Leukemia Virus Extends into the <i>gag</i> Region", 1987, <u>J. of Virology</u> , 61:1639-1646	Y
	A36	NALDINI, LUIGI et al., "In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector", 1996, Science, 272:263-267	Y
	A37	KIM, MARRY V. et al., "Minimal Requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1", 1998, <u>J. of Virology</u> , 72:811-816	Y
	A38	POESCHLLA, ERIC M. et al., "Efficient transduction of nondividing human cells by feline immunodeficiency virus lentiviral vectors", 1998, Nature Medical, 4:354-357	Y
	A39	FENG, MEIZHEN et al., "Stable in vivo gene transduction via a novel adenoviral/retroviral chimeric vector", 1997, Nature Biotechnology, 15:866	Y
	A40	AEBI, M. et al., "Precision and orderliness in splicing", <u>Trends in Genetics</u> , 3:102-107	Y
QN	A41	BOTHWELL, ALFRED L. et al., "Heavy Chain Variable Region Contribution to the NPb Family of Antibodies: Somatic Mutation Evident in a y2a Variable Region", 1981, Cell, 24:625-637	Y

Examiner Signature	La Pyren	Date Considered	6/24/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

See Paper #17 SERIAL NO. 09/937,295 674523-2020 Uden, et al. GROUP November 29, 2001 1636 CLASS SUBCLASS FILING DATE IF APPROPRIATE SUBCLASS TRANSLATION CLASS YES NO

	AP						
		0	THER PRIOR ART (Including Auth	or, Title, Date, Pertinent Pages,	, Etc.)		
	AQ					 	
	AR						
	AS						
	AT						
	AU						
	AV						
EXAMINER	_			DATE CONSIDERED	_		

6/24/04

FOREIGN PATENT DOCUMENTS

COUNTRY

ATTY. DOCKET NO.

APPLICANT

FILING DATE

NAME

U.S. PATENT DOCUMENTS

Riviere et al.

Based on Form PTO-1449

RADEN

AΒ AC AD ΑE AF ΑG AΗ ΑI ΑJ ΑK

AL AM ΑN ΑO

EXAMINER

INITIAL QW

OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

DOCUMENT NUMBER

DOCUMENT NUMBER

6,544,771

DATE

DATE

04/08/03

(3/90)